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EXAMINER

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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 09/876,432	Applicant(s) BERQUIST ET AL.	
	Examiner Kumiko C. Koyama	Art Unit 2887	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-8,10-13,15-24,39-41,45-49,75-78 and 80-102 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) 18-24 is/are allowed.
- 6) Claim(s) 1,3-8,10-13,15-17,39-41,45-49,75-78 and 80-102 is/are rejected.
- 7) Claim(s) 17 is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 21 November 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 1107,1207,0108.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application
- 6) Other: ____.

DETAILED ACTION

Amendment received on October 31, 2007 has been acknowledged.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1, 3-8, 10-13, 15-24 and 48-49 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 60 and 64-77 of copending Application No. 09/882,969 (herein after '969 application). Although the conflicting claims are not identical, they are not patentably distinct from each other because the present claimed invention is a broader recitation of the '969 application.

Re claim 1 of the present invention: Claim 1 of the present invention recites "A method of collecting information related to RFID tags associated with items of interest, comprising the steps of: (a) selecting a category of items using a user interface associated with an RFID reader; (b) using the RFID reader to interrogate at least one RFID tag associated with an item of interest; and (c) associating information related to the at least one item with the selected category."

Re claim 60 of '969 application: Claim 60 of the '969 invention recites "A method of interrogating RFID tags associated with items of interest, comprising the steps of: (a) selecting at least one category of items using a user interface associated with an RFID reader; (b) interrogating RFID tags associated with items, at least one of which is within the category of items; (c) categorizing information related to the at least one item(s) associated with the interrogated RFID tag(s) in at least one of the categories; and (d) ignoring any RFID-tagged-item that may not be categorized in at least one category."

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-8, 12, 13, 15, 16, 75-78, 80-84 and 87-94 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garber et al (US 6,232,870) in view of Davidsson (US 6,934,718).

Re claims 1, 8, 75, 76 and 91: Garber discloses a method of using a portable RFID device with a group of items each having an RFID tag that comprises a step of inputting information to the device describing a certain item or class of items (col 18, lines 55-60). Garber discloses a database and collecting in a database the information entered into the RFID device regarding the item that was interrogated (col 20, lines 50-55). Garber discloses that the device could be programmed with specific information identifying certain items that an operator wishes to locate. The unique identifier for each desired item would be stored in a reserved memory location in the handheld computer (col 16, lines 37-41). Such inputting information to the device describing a certain item or class of item teaches selecting using a user interface associated with an RFID reader. Garber also discloses scanning the RFID tags associated with each item in the group of items (col 18, lines 60-62). Specifically, Garber discloses that as the identifiers of items on a shelf were read by the RF reader, each would be compared, using standard software routines known to those skilled in the art, with the list of items stored in memory (col 16, lines 41-45). Such disclosure teaches that the RFID reader interrogates at least one RFID tag associated with an time of interest after the input of the identifying information, and also teaches that the item of

interest is not currently associated because Garber teaches the association is being determined by the comparison. Since Garber obtains the unique identifier of items by the RF reader, the information necessary to categorize each RFID-tagged item is the unique identifier, which is obtained from the RFID tag itself. Garber also discloses using the information input to update a database that includes information as to that item (col 20, lines 9-15).

Garber fails to teach that the inputted information is a category and associating information obtained with the category selected. Garber also does not specifically teach saving the categorized information. Garber also fails to teach selecting two categories.

Davidsson discloses categorizing and retrieving items. Davidsson discloses that the user wishes to categorize the web page in terms of both sports and newspaper and so the mouse cursor 32 is moved to operate buttons 33 and 34 so as to dispense a graphical representation of both red and blue ink 39, 40 onto the web page displayed in window 38 (col 5, lines 40-44). Such disclosure teaches selecting at least two categories of items using a user interface, and the categories sports and newspaper are specified attributes and represents a portion of an entire group of items. Davidsson also discloses that web page A is displayed in window 28, ready to be book marked (col 5, lines 38-40), which shows that the web page was not associated with the categories selected. Davidsson also discloses that to this end, thumbnail data is assembled in a manner known per se and attached to the URL for Page A. Also, the marker signal flags CM1=1, CM2=1 and CM3=0 are collocated with the URL and the thumbnail data (col 5, lines 47-52). Such disclosure teaches associating and categorizing the item with the category selected. Davidsson also discloses that the processor 9 runs a book marking process 28 such that book marked data corresponding to Table 2 is stored in the book marked web page cache 29 shown in

FIG. 3 (col 5, lines 44-47), which teaches saving the categorized information in a database. Davidsson further discloses that it may be appropriate to bookmark a web page without using category marker signals (col 5, lines 59-61), which shows ignoring the item that may not be categorized in any of the categories. Davidsson further discloses that the book marking and retrieval process may be used to bookmark program information in a TV program guide in order to enable the user to categorise links to TV programs which may be stored in the storage medium (col 6, lines 50-57). Davidsson further discloses that the storage device is a floppy disc drive, a hard disc, a CD or DVD ROM Drive (col 3, lines 9-10).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Davidsson to the teachings of Garber such each item can be easily retrieved later using the categorized information, so that the user does not have to remember exact title, name or volume of the book. Such modification not only helps the user retrieve forgettable titles, but also provide a faster retrieving system for library employees as well.

Re claims 3 and 78: As described above, Davidsson discloses that a graphical representation of the category is displayed in window 38. Davidsson further discloses a display device 2 (col 3, lines 28-31).

Re claims 4, 13, 78 and 93: As described above, Davidsson discloses that the categories are sports and newspaper. The categories are displayed on the display (Fig. 5).

Re claims 5 and 80: Garber further discloses shelf information that is to associate each item with a location (col 17, lines 22-30). The correct shelf location is obtained by reading several RFID tags and heuristically processing the data to infer a location (col 17, lines 45-52).

Re claims 6 and 81: As described above, Garber discloses a method of using a portable RFID device with a group of items each having an RFID tag that comprises a step of inputting information to the device describing a certain item or class of items (col 18, lines 55-60)

Re claims 7 and 82: Davidsson further discloses that the book marking and retrieval process may be used to bookmark program information in a TV program guide in order to enable the user to categorise links to TV programs which may be stored in the storage medium (col 6, lines 50-57). Davidsson further discloses a display device 2 (col 3, lines 28-31).

Re claim 12: Garber discloses that the hand-held RFID device could also be used to determine whether all members of a set of associated items are present together (col 17, lines 10-16).

Re claim 13: As described in Davidsson, Davidsson describes that one category is sports and one category is newspaper. The categories describe a different types of items.

Re claims 15, 16 and 94: Garber also discloses that a list of items not checked-in could be obtained and then downloaded to the hand-held device or the RFID tag could maintain a memory location to indicate the check-in status of an item (col 17, lines 1-5). Garber also discloses obtaining the desired shelf location from a library database and then download those locations as part of the transfer to data to the hand-held device (col 17, lines 40-43). Also as described above, Davidsson further discloses that the book marking and retrieval process may be used to bookmark program information in a TV program guide in order to enable the user to categorise links to TV programs which may be stored in the storage medium (col 6, lines 50-57). Davidsson further discloses that the storage device is a floppy disc drive, a hard disc, a CD or DVD ROM Drive (col 3, lines 9-10).

Re claims 77 and 92: As described above, Davidsson also discloses that the processor 9 runs a book marking process 28 such that book marked data corresponding to Table 2 is stored in the book marked web page cache 29 shown in FIG. 3 (col 5, lines 44-47), which teaches saving the categorized information in a database.

Re claim 83: Garber discloses a method of using a portable RFID device with a group of items each having an RFID tag that comprises a step of inputting information to the device describing a certain item or class of items (col 18, lines 55-60). Garber discloses that the device could be programmed with specific information identifying certain items that an operator wishes to locate. The unique identifier for each desired item would be stored in a reserved memory location in the handheld computer (col 16, lines 37-41). Such inputting information to the device describing a certain item or class of item teaches selecting using a user interface associated with an RFID reader. Garber also discloses scanning the RFID tags associated with each item in the group of items (col 18, lines 60-62). Specifically, Garber discloses that as the identifiers of items on a shelf were read by the RF reader, each would be compared, using standard software routines known to those skilled in the art, with the list of items stored in memory (col 16, lines 41-45). Such disclosure teaches that the RFID reader interrogates at least one RFID tag associated with an item of interest after the input of the identifying information, and also teaches that the item of interest is not currently associated because Garber teaches the association is being determined by the comparison. Since Garber obtains the unique identifier of items by the RF reader, the information necessary to categorize each RFID-tagged item is the unique identifier, which is obtained from the RFID tag itself.

Garber fails to teach that the inputted information is a category and associating information obtained with the category selected. Garber also does not specifically teach saving the categorized information. Garber also fails to teach selecting two categories.

Davidsson discloses categorizing and retrieving items. Davidsson discloses that the user wishes to categorise the web page in terms of both sports and newspaper and so the mouse cursor 32 is moved to operate buttons 33 and 34 so as to dispense a graphical representation of both red and blue ink 39, 40 onto the web page displayed in window 38 (col 5, lines 40-44). Such disclosure teaches selecting at least two categories of items using a user interface, and the categories sports and newspaper are specified attributes and represents a portion of an entire group of items. Davidsson also discloses that web page A is displayed in window 28, ready to be book marked (col 5, lines 38-40), which shows that the web page was not associated with the categories selected. Davidsson also discloses that to this end, thumbnail data is assembled in a manner known per se and attached to the URL for Page A. Also, the marker signal flags CM1=1, CM2=1 and CM3=0 are collocated with the URL and the thumbnail data (col 5, lines 47-52). Such disclosure teaches associating and categorizing the item with the category selected. Davidsson also discloses that the processor 9 runs a book marking process 28 such that book marked data corresponding to Table 2 is stored in the book marked web page cache 29 shown in FIG. 3 (col 5, lines 44-47), which teaches saving the categorized information in a database. Davidsson further discloses that it may be appropriate to bookmark a web page without using category marker signals (col 5, lines 59-61), which shows ignoring the item that may not be categorized in any of the categories. Davidsson further discloses that the book marking and retrieval process may be used to bookmark program information in a TV program guide in order

to enable the user to categorise links to TV programs which may be stored in the storage medium (col 6, lines 50-57). Davidsson further discloses that the storage device is a floppy disc drive, a hard disc, a CD or DVD ROM Drive (col 3, lines 9-10).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Davidsson to the teachings of Garber such each item can be easily retrieved later using the categorized information, so that the user does not have to remember exact title, name or volume of the book. Such modification not only helps the user retrieve forgettable titles, but also provide a faster retrieving system for library employees as well.

Although Garber does not specifically disclose enabling the user to correct the inventory list in real time by confirming that the item is absent using a user interface associated with the RFID reader, Garber discloses that the user may input the new status of the article into the hand-held RFID device (col 18, lines 1-2). Garber further discloses that because this information must be entered, it saves the operator time to be able to indicate this state directly and immediately as opposed to waiting until he or she can access the terminal (col 18, lines 1-6).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Garber and provide new status of the article because such that the operator can correct the database as quickly as possible while the user still remembers and so that others are able to retrieve the most updated information as well. Such modification not only delivers the information quickly, but also provides the user to update at the spot without waiting to go back to the main terminal.

Re claim 84: As described above, Davidsson also discloses that the processor 9 runs a book marking process 28 such that book marked data corresponding to Table 2 is stored in the book marked web page cache 29 shown in FIG. 3 (col 5, lines 44-47), which teaches saving the categorized information in a database.

Re claim 87: Garber discloses that the hand-held RFID device could also be used to determine whether all members of a set of associated items are present together (col 17, lines 10-16).

Re claim 88: As described in Davidsson, Davidsson describes that one category is sports and one category is newspaper. The categories describe a different types of items.

Re claims 89 and 90: Garber also discloses that a list of items not checked-in could be obtained and then downloaded to the hand-held device or the RFID tag could maintain a memory location to indicate the check-in status of an item (col 17, lines 1-5). Garber also discloses obtaining the desired shelf location from a library database and then download those locations as part of the transfer to data to the hand-held device (col 17, lines 40-43). Also as described above, Davidsson further discloses that the book marking and retrieval process may be used to bookmark program information in a TV program guide in order to enable the user to categorise links to TV programs which may be stored in the storage medium (col 6, lines 50-57). Davidsson further discloses that the storage device is a floppy disc drive, a hard disc, a CD or DVD ROM Drive (col 3, lines 9-10).

6. Claims 10, 11, 85 and 86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garber in view of Davidsson as applied to claims 8 and 83 above, and further in view of

Beauchamp (US 6,886,011). The teachings of Garber as modified by Davidsson have been discussed above.

Re claims 10 and 85: Garber as modified by Davidsson fails to teach that the categories are mutually exclusive.

Beauchamp discloses that the other category systems referenced may be mutually exclusive or non-mutually exclusive systems (col 9, lines 8-10).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Beauchamp to the teachings of Garber as modified by Davidsson because when categories are mutually exclusive there is no overlap between categories and as a result, there are less items to look over for each category, and therefore, provides a faster search.

Re claims 11 and 86: Garber as modified by Davidsson fails to teach that the categories are not mutually exclusive.

Beauchamp discloses that the other category systems referenced may be mutually exclusive or non-mutually exclusive systems (col 9, lines 8-10).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Beauchamp to the teachings of Garber as modified by Davidsson because when categories are not mutually exclusive, it provides the items to be found in more one category, and therefore, when the user is looking for a particular subject, it provides the user to find the article in more than one category and therefore, providing the flexibility and increase in speed to find a certain item.

7. Claims 39-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garber et al (US 6,232,870).

Re claims 39: Garber discloses a handheld RFID device that could be programmed with specific information identifying certain items that an operator wishes to locate (col 16, lines 35-40). The unique identifier for each desired item would be stored in a reserved memory location in the handheld computer (col 16, lines 39-41). As the identifiers of items on a shelf were read by the RF reader, each would be compared, using standard software routines known to those skilled in the art, with the list of items stored in memory (col 16, lines 41-45). Garber discloses that the RFID device of the present invention could also be used to verify the order of materials on a shelf (col 17, lines 17-18). The device scanned across one or more rows or item (col 17, lines 18-19). Such disclosure teaches interrogating RFID tags, each associated with an item to obtain information. The device has access to the shelving algorithm used by the library for the section being scanned, and the algorithms may be Dewey Decimal order, Library of Congress order, and Author last name/Title order (col 17, lines 21-25). Such disclosure teaches using the information obtained in the interrogation for performing a primary operation of determining whether the items are in a predetermined order within a physical storage area. Garber also discloses that the hand-held device could also be used to determine whether all members of a set of associated items are present together (col 17, lines 13-16). Garber also discloses that when a user takes a library material from its location, the user may input the new status of the article into the hand-held RFID device (col 17, line 67-col 18, line 2).

Although Garber does not specifically disclose that the operation of determining whether items are in a predetermined order within the storage area and the background inventory

operation of determining the presence or absence of the items in the storage area are performed simultaneously, Garber discloses that some books are grouped as a set of associated items and the set of associated items may be orders or volume, such as encyclopedia, which are in alphabetical order. It would be necessary to perform the order determination in order to determine which exact book or volume is missing from the set.

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Garber and simultaneously perform the two operations because one operation necessitates the determination of the other in order to perform the determination as quickly as possible.

Re claims 40 and 41: Garber discloses a handheld RFID device that could be programmed with specific information identifying certain items that an operator wishes to locate (col 16, lines 35-40). Garber discloses that a list of item not check-in could be obtained and then downloaded to the hand-held device (col 17, lines 1-5). The unique identifier for each desired item would be stored in a reserved memory location in the handheld computer (col 16, lines 39-41). As the identifiers of items on a shelf were read by the RF reader, each would be compared, using standard software routines known to those skilled in the art, with the list of items stored in memory (col 16, lines 41-45). Reading the identifiers of items on a shelf teaches interrogating the RFID tags, each associated with an item. And each item identifier is compared using list of item not check-in teaches using the information obtained for performing a primary operation of searching for certain items on a predetermine search list or check-in. Garber also discloses that the hand-held device could also be used to determine whether all members of a set of associated items are present together (col 17, lines 13-16). Garber also discloses that when a user takes a

library material from its location, the user may input the new status of the article into the hand-held RFID device (col 17, line 67-col 18, line 2).

Although Garber does not specifically disclose that the operation of searching and the background inventory operation of determining the presence or absence of the items in the storage area are performed simultaneously, it would be necessary to perform searching for certain items on a predetermined search list to determine the presence or absence of the items in the storage area.

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Garber and simultaneously perform the two operations because one operation necessitates the determination of the other in order to perform the determination as quickly as possible.

Re claim 42: Garber discloses that the identifiers of items on a shelf were read by the RF reader (col 16, line 41-42). Garber discloses a library typically maintains a list of missing items, those items that are expected to be in the library, but cannot be found (col 16, lines 49-51). By downloading those missing item identifier to the hand-held device, the operator can pass the device by items and obtain feedback when a missing items is encountered (col 16, lines 50-55). The items on a shelf are compared using the software routine with the list of items stored in memory (col 16, lines 40-45). When a match occurred, the device would then create one or more visual, audio, tactile, or other signals indicating the presence of the item (col 16, lines 45-47). In the situation where list of missing items is used, the indication will show that the item is actually present in the library, and therefore, the indication to the user will represent that the inventory list as being incorrect.

Although Garber does not specifically disclose enabling the user to correct the inventory list in real time by confirming that the item is present using the user interface associated with the RFID reader, Garber discloses that the user may input the new status of the article into the hand-held RFID device (col 18, lines 1-2). Garber further discloses that because this information must be entered, it saves the operator time to be able to indicate this state directly and immediately as opposed to waiting until he or she can access the terminal (col 18, lines 1-6).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Garber and provide new status of the article because such that the operator can correct the database as quickly as possible while the user still remembers and so that others are able to retrieve the most updated information as well. Such modification not only delivers the information quickly, but also provides the user to update at the spot without waiting to go back to the main terminal.

Re claims 43 and 44: Garber discloses a touch-screen display (col 15, line 2).

Re claim 45: Garber discloses a determination of which shelf is currently being processed in order to search items with non-matching locations (col 17, lines 45-49). The correct shelf locations I obtained by reading several RFID tags and heuristically processing the data to infer a location (col 17, lines 45-49). Garber discloses the RFID device reads a certain number of tags that are indexed to the Adult fiction area (col 17, lines 51-52). Such disclosure teaches using an RFID reader to interrogate RFID tags each associated with an item. Garber discloses that the device can be programmed to alert the user when non-Adult Fiction items are encountered (col 17, lines 51-53). Such disclosure teaches determining whether an item represented on the inventory list as being present is among the items whose RFID tags were interrogated, and when

the item is not among the item whose RFID tags were interrogated, indicating to the user in real time that the inventory list is incorrectly indicates the item is present.

Although Garber does not specifically disclose enabling the user to correct the inventory list in real time by confirming that the item is absent using a user interface associated with the RFID reader, Garber discloses that the user may input the new status of the article into the handheld RFID device (col 18, lines 1-2). Garber further discloses that because this information must be entered, it saves the operator time to be able to indicate this state directly and immediately as opposed to waiting until he or she can access the terminal (col 18, lines 1-6).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Garber and provide new status of the article because such that the operator can correct the database as quickly as possible while the user still remembers and so that others are able to retrieve the most updated information as well. Such modification not only delivers the information quickly, but also provides the user to update at the spot without waiting to go back to the main terminal.

Re claims 46 and 47: Garber discloses a touch-screen display (col 15, line 2).

8. Claims 48, 49, 95-98 and 101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garber et al (US 6,232,870) in view of Frich (US 6,074,156).

Re claims 48, 95 and 96: Garber discloses that the RFID device could also be used to verify the order of materials on a shelf (col 17, lines 17-18). The device is scanned across one or more rows or items. The device reads each item and indicates, to the operator, which items are not shelved in the correct order (col 17, lines 19-21). Such disclosure teaches using RFID reader to interrogate RFID tags, each associated with an item, wherein the items are not currently

located at desired locations in a physical storage area, and the items are not currently arranged or interrogated in an order associated with their desired locations in the physical storage area. The device has access to the shelving algorithm used by the library for the section being scanned (col 17, lines 21-22). Such algorithms include: Dewey Decimal order, Library of Congress order, and Author last name/Title order (col 17, lines 23-26).

Garber fails to teach that items are to be moved from their current location to their desired location in the physical storage area.

Frich disclose that librarian's tasks involve receiving, sorting, and ultimately re-shelving material returned from patrons (col 1, lines 19-21). Frich also discloses that in order to minimize problems and injuries involving these tasks, procedures have been developed to provide some degree of automation in such receiving, sorting and re-shelving tasks (col 1, lines 30-33).

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Frich to the teachings of Garber and provide and order of the correct shelving order such that it is faster and easier for the librarian to handle to re-shelving process.

Re claim 49: Garber discloses that a suitable display may advise the operator as to the status of the operation.

Re claim 97: Garber also discloses comparing a description of the items obtained using the information obtained from the RFID elements to the algorithm to determine whether the scanned items are in the algorithm order (col 19, lines 23-27).

Re claim 101: Garber teaches that after the RFID device reads the RFID tag, the device transmits the item identification information to a computer having software (col 11, lines 40-45).

9. Claims 99 and 100 rejected under 35 U.S.C. 103(a) as being unpatentable over Garber in view of Frich as applied to claim 97 above, and further in view of Barritz et al (US Patent Application Publication 2002/0008621). The teachings of Garber as modified by Frich have been discussed above.

Re claims 99 and 100: Garber fails to teach creating a list of items that are not on the ordered list.

Barrtiz teaches that when a bar code is scanned, the scanned code is verified against the database. If an entry is not found, the user may be prompted to enter descriptive information about the item at which point a new inventory item is created (Page 2, Paragraph [0045], lines 1-5). Since Barrtiz verifies against the database and locates the entry, Barrtiz also teaches simultaneously determining the presence or absence of the item because if the item is verified, it is present, and if the item is not verified, then it is absence. With Barrtiz teaching the item is either present or absence, therefore, it must be one or the other.

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to integrate the teachings of Barrtiz to the teachings of Garber as modified by Frich such that the user is notified to create a new category for the non-matching item to ensure that the each and every item is categorized. By ensuring that every item belongs to a category, the user is able to locate the item in a faster manner.

10. Claim 102 is rejected under 35 U.S.C. 103(a) as being unpatentable over Garber in view of Frich as applied to claim 97 above, and further in view of Parulski et al (US 5,633,678). The teachings of Garber as modified by Frich have been discussed above.

Parulski teaches a removable data storage device

Therefore, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to modify the teachings of Parulski to the teachings of Garber as modified by Frich because flash EPROM memory is a small device that contains a lot of memory space and therefore, it is easy for the user to carry around such compact device. Such modification provides the user to easily transport the list to other devices such that other devices will also have the same list to share.

Response to Arguments

11. Applicant's arguments with respect to claims 1,3-8,10-13,15-17,39-41,45-49,75-78 and 80-102 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

12. Claims 18-24 are allowed.

13. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

14. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record, Garber and Davidsson, fails to teach both selecting at least one category of items and specifying one or more attributes associated with the selected category, and ignoring any RFID-tagged-item without listing or categorizing those items that do not have the attributes specified by the selected category.

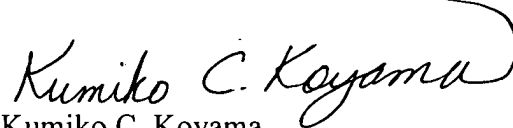
The prior art of record, Garber and Davidsson, also fails to teach that a removable data storage device is a flash memory card in conjunction with other limitation recited in the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kumiko C. Koyama whose telephone number is 571-272-2394. The examiner can normally be reached on Monday-Friday 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Kumiko C. Koyama
January 22, 2008